

SEQUENCE LISTING

<110>	Watts,	Colin	
	Univer	sitv of	Dunde

<120> Enzyme Inhibition

<130> DUNW/P20631PC

<140> PCT/GB99/00963

<141> 1999-03-26

<150> GB 9806442.1

<151> 1998-03-26

<150> US 60/086966

<151> 1998-05-28

<160> 39

<170> PatentIn Ver. 2.0

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<211> 4

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:peptide

sequence which may be comprised in a competitive inhibitor of AEP

<400> 1

Ala Glu Asn Lys

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<210> 2

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:peptide sequence which may be comprised in a competitive inhibitor of AEP

<400> 2

Lys Asn Asn Glu

1

<210> 3

<211> 295

<212> PRT

<213> Homo sapiens

Met His Arg Arg Arg Ser Arg Ser Cys Arg Glu Asp Gln Pro Val Met

1 5 10 15

Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro Met Leu
20 25 30

Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala Leu
35 40 45

Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln Ala 50 55 60

Thr Thr Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu Asp Lys Leu 65 70 75 80

Thr Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu 85 90 95

Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu
100 105 110

Leu Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met Gln
115 120 125

Asn Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu
130 135 140

Leu Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser

Phe Pro Glu Asn Leu Thr His Leu Lys Asn Thr Met Glu Thr Ile Asp

165 170 175

Trp Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu Met

180 185 190

Ser Arg His Ser Leu Glu Gln Lys Pro Thr Asp Gln Pro Pro Lys Val
195 200 205

Leu Thr Lys Cys Gln Glu Glu Val Ser His Ile Pro Ala Val His Pro
210 215 220

Gly Ser Phe Arg Pro Lys Cys Asp Glu Asn Gly Asn Tyr Leu Pro Leu 225 230 235 240

Gln Cys Tyr Gly Ser Ile Gly Tyr Cys Trp Cys Val Phe Pro Asn Gly
245 250 255

Thr Glu Val Pro Asn Thr Arg Ser Arg Gly His His Asn Cys Ser Glu
260 265 270

Ser Leu Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln
275
280
285

Asp Leu Gly Pro Val Pro Met
290 295

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<210> 4
<211> 24
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence:Sequence preceding tetanus toxin fragment

Gly His Ile Glu Gly Arg His Ile

20

<210> 5
<211> 36
<212> DNA
<213> Artificial Sequence

<400> 5

<220>
<223> Description of Artificial Sequence:primer

cgctacactc cgaacgcggc gatcgattct ttcgtt

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<210> 6
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agcggataac aatttcacac agga
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gtaaaacgac ggccagt
<210> 8
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<223> Description of Artificial Sequence:synthetic transferrin peptide

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Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn

1 5 10 15

Phe Cys Leu Phe Arg Lys Lys

20

<210> 9

<211> 9

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<223> Description of Artificial Sequence:cleavage fragment from synthetic transferrin peptide

<400> 9

Gln Gln His Leu Phe Gly Ser Asn

5

1

<210> 10

<211> 15

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<223> Description of Artificial Sequence:cleavage fragment from synthetic transferrin peptide

<400> 10

Val Thr Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg Lys Lys

1 5 10 15

<210> 11

<211> 8

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Phe Cys Leu Phe Arg Lys Lys

1 5

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Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn
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                                        10
                                                              15
Phe Cys Leu Phe Arg
              20
<210> 13
<211> 16
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<213> Homo sapiens
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{\tt Gln\ Gln\ His\ Leu\ Phe\ Gly\ Ser\ Asn\ Val\ Thr\ Asp\ Cys\ Ser\ Gly\ Asn}
  1
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                                        10
                                                              15
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<211> 5
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Phe Cys Leu Phe Arg

<400> 14

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<210> 15
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<211> 12

<212> PRT

<213> Homo sapiens

<400> 15

Val Thr Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg

1 5 10

<210> 16

<211> 9

<212> PRT

<213> Homo sapiens

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Gln Gln His Leu Phe Gly Ser Asn

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<210> 17

<211> 210

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<213> Homo sapiens

<400> 17

Met Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro Met

Leu Gly Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala
20 25 30

Leu Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln
35 40 45

Ala Thr Thr Ala Tyr Phe Gln Gln Gln Gly Arg Leu Asp Lys Leu Thr
50 55 60

Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu Pro
65 70 75 80

Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu

85 90 95

Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Gln Asn Ala Thr

100 105 110

Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu Leu Gln Asn
115 120 125

Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser Phe Pro Glu
130 135 140

Asn Leu Thr His Leu Lys Asn Thr Met Glu Thr Ile Asp Trp Lys Val
145 150 155 160

Phe Glu N	Met His	His Trp	Leu	Leu	Phe	Glu	Met	Ser	Arg	His	Ser	Leu
		165				170					175	
Glu Gln 1	Lys Pro	Thr Asp	Ala	Pro	Pro	Lys	Glu	Ser	Leu	Glu	Leu	Glu
	180				185					190		
Asp Pro S	Ser Ser	Gly Leu	Gly	Val	Thr	Lys	Gln	Asp	Leu	Gly	Pro	Val
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Pro Met												
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<210> 18												
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<213> Clostridium tetani												
<400> 18												

<210> 19

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<211> 10

<212> PRT

<213> Clostridium tetani

Arg His Ile Asp Asn Glu Glu Asp Ile Asp

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<400> 19
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Tyr Thr Pro Asn Asn Glu Ile Asp Ser Phe

1 5 10

<210> 20

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<213> Clostridium tetani

<400> .20

Gly Asn Ala Phe Asn Asn Leu Asp Arg Ile

1 5 10

<210> 21

<211> 10

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism:commercial ribonuclease

<400> 21

Asn Gly Gln Thr Asn Cys Tyr Gln Ser Tyr

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5

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<213> Unknown
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<223> Description of Unknown Organism:commercial
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Gly Thr Ser Val Asn Val His Ser Ser Leu
                  5
                                      10
<210> 24
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<400> 24
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Gly Asn Gly Met Asn Ala Trp Val Ala Trp

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<210> 25

<211> 10

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<213> Phasianidae gen. sp.

<400> 25

His Gly Leu Asp Asn Tyr Arg Gly Tyr Ser

1 5 10

<210> 26

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 26

Ile Leu Gln Ile Asn Ser Arg Trp Trp Cys

1 5 10

<210> 27

<211> 10

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<213> Phasianidae gen. sp.

<400> 27

Val Ser Asp Gly Asn Gly Met Asn Ala Trp

1 5 10

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<212> PRT

<213> Phasianidae gen. sp.

<400> 28

Arg Trp Trp Cys Asn Asp Gly Arg Thr Pro

1 5 10

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<213> Phasianidae gen. sp.

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Val Ala Trp Arg Asn Arg Cys Lys Gly Thr

1 5 10

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                  5
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<213> Homo sapiens
<400> 31
Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg
                  5
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<210> 32
<211> 15
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<213> Homo sapiens
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Lys Gly Ile Gly Ser Gly Lys Val Leu Lys Ser Gly Pro Gln Cys
  1
                  5
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<211> 10

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<210> 33
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:peptide
      sequence control for a competitive
      inhibitor of AEP
<400> 33
Ala Glu Gln Lys
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<210> 34
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<223> Description of Artificial Sequence:peptide
      sequence control for a competitive
      inhibitor of AEP
<400> 34
Lys Gln Gln Glu
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<210> 35
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<212> PRT
<213> Homo sapiens
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Asn Asn Glu Gln Leu Pro Met
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                  5
<210> 36
<211> 6
<212> PRT
<213> Homo sapiens
<400> 36
Asn Thr Met Glu Thr Ile
 1
                  5
<210> 37
<211> 5
<212> PRT
<213> Homo sapiens
<400> 37
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Asn Leu Arg Met Lys

<211> 19
<212> PRT
<213> Homo sapiens

Ala Thr Lys Tyr Gly Asn Met Thr Gle Asp His Val Met His Leu Leu

1 5 10 15

Gln Asn Ala

<400> 39